Registration of Crop Cultivars

REGISTRATION OF HAZEN BARLEY

‘HAZEN’ barley (Hordeum vulgare L.) (Reg. no. 190, PI 483238) was developed by the Agricultural Experiment Station, North Dakota State University, Fargo, ND, and released 10 Jan. 1984. It was tested as ND5569 and traces to a bulk of an F₄ row from the cross ‘Glenn’/4/’Nordic’/‘Dickson’/’Trophy’/3/‘Azure’.

Hazen is a six-rowed spring barley with semismooth awns. The covered kernels have white aleurone and long hairs on the rachilla. The spike is medium-long, medium-lax, and semierect. Hazen is medium early, midtall, and has strong straw. It is resistant to Puccinia graminis Pers. f. sp. tritici Eriks. and Henn. but is susceptible to P. hordei Otth. It has more field resistance than H. sativum Pamm., King., and Bakke and is equal to Glenn in resistance to Pyrenophora teres (Died) Drechs. Hazen is susceptible to Ustilago nuda (Jens.) Rostr., U. hordei (Pers.) Lagerh., and barley yellow dwarf virus. It has exceeded Glenn and ‘Morex’ in yield by 13 and 14%, respectively, in 34 trials in North Dakota and by 7 and 11%, respectively, in 20 regional trials. Hazen also exceeds Glenn and Morex in test weight, kernel weight, kernel plumpness, and straw strength. Its heading date is about 2 days later than that of Glenn. Quality tests conducted to date by North Dakota State University, the USDA-ARS Barley and Malt Laboratory, Madison, WI, and industry laboratories have shown that Hazen is superior to Morex in total protein percentage (lower) and equal in malt extract and other malting and brewing characteristics. Plant scale brewing tests are still to be concluded.

This cultivar is named in honor of the late Arlon G. Hazen, the former Director of the North Dakota Agricultural Experiment Station, under whose tenure the barley improvement program was expanded greatly. Breeder seed will be maintained by the North Dakota Agric. Exp. Stn., Fargo, ND 58105.

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References and Notes

1. Professor and associate professor, Dep. of Agronomy; professor, Dep. of Plant Pathology; and associate professor, Dep. of Cereal Chemistry and Technology, respectively, North Dakota State Univ., Fargo, ND 58105. Registration by the Crop Sci. Soc. of Am. Published with the approval of the Director of the North Dakota Agric. Exp. Stn. as Journal Article no. 1327. Accepted 25 June 1984.